		STUDY MODULE D	ESCRIPTION FORM			
Name of the module/subject Engineering Drawing				Code 1010601311010640054		
Field of)	Profile of study	Year /Semester		
Transport			(general academic, practical) (brak)	1/1		
Elective	e path/specialty		Subject offered in: Polish	Course (compulsory, elective) obligatory		
Cycle o	f study:		Form of study (full-time,part-time)			
	First-cyc	cle studies	full-time			
No. of h	iours			No. of credits		
Lectu	re: 1 Classes	s: - Laboratory: -	Project/seminars: 1	5		
Status	of the course in the study	program (Basic, major, other)	(university-wide, from another field)			
(brak)			(br	· ·		
Educati	on areas and fields of sci	ence and art		ECTS distribution (number and %)		
techr	nical sciences			5 100%		
	Technical scie	ences		5 100%		
Resp	onsible for subj	Responsible for subject /	lecturer:			
Ph.	D. Maciej Berdychows	ski	Ph. D. Dominik Wilczyński			
	ail: Maciej.Berdychows 61 224 4514	ski@put.poznan.pl	email: dominik.wilczynski@put.poznan.pl			
	rking Machines and Ti	ansportation	tel. 61 224-4512 Working Machines and Transportation			
	rowo 3 Street, 60-965		Piotrowo 3 Street, 60-965 Poz			
Prere	equisites in term	is of knowledge, skills an	d social competencies:			
		Fundamental knowledge on geo	metry and stereometry.			
1	Knowledge	Fundamental knowledge on theory of machines and machine parts.				
2	Skills	Problem solving skills with the u the selected sources.	se of the knowledge and skills of information acquisition from			
3	Social competencies	Understanding the necessity of in a team.	enlarging the competences, willing	ness to take a cooperation		
Assu	-	ectives of the course:				
Master	ship of basic principle	s of image construction of spatial	objects on the plane. Training of sp	patial imagination.		
	ng the methods and p ng" the engineering dra	1 0 0 0	Practical skills of preparing the tech	nical documentation. Skills of		
	Study outco	mes and reference to the	educational results for a	field of study		
Knov	vledge:					
	ws the basic techniqu - [T1A_W07]	es, methods and tools used in the	process of solving transport tasks	, mainly of an engineering		
Skills						
		on from various sources, including	g literature and databases, both in I	Polish and in English,		
	priate to integrate them rmulate - [T1A_U01]	n, make their interpretation and cri	tical evaluation, draw conclusions,	and fully justify the opinions		
2. is a [T1A_I		ormation and communication tech	niques, applicable at various stage	s of transport undertakings -		
	al competencies:					
comm	unicate to the public, in		in particular, understands the nee and opinions on engineering activ gineer - [T1A_K04]			
Assessment methods of study outcomes						

Written exam, project.

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	Course description					
1.	Introduction, standardization in engineering drawing.					
2.	Projection of 3D objects on the plane of the drawing.					
3.	Presentation of object interior with the use of sectional views, types of sectional views.					
4.	Presentation of object cross-section with the use of revolved section.					
5.	The application of geometrical constructions for drawing the objects.					
6.	Lines of intersection of typical solids.					
7.	Dimensioning.					
8.	Tolerances for production drawings and fits for assembly drawings.					
9.	Geometrical Product Specification.					
10.	Production drawings for shaft and hub. Splines.					
11.	Production drawings for gear wheels.					
12.	Assembly drawings of screw joints and splined connections.					
13.	Simplifications for rolling bearings drawings.					
14.	The principles of drawing welds and welded joints.					
15.	The design of bearing modulus.					
16.	The analysis ("reading") of assembly drawings.					
Basic	bibliography:					
1. Dobr	zański T., Rysunek techniczny maszynowy, WNT, W-wa 1997.					
2. Lewandowski T., Rysunek techniczny dla mechaników, WSiP, W-wa 2009.						
3. Bobe	3. Bober A, Dudziak M., Zapis konstrukcji, PWN, W-wa 1999.					
4. Janko	4. Jankowski W. Geometria Wykreślna. Wydawnictwo P.P. 1999 r.					
	5. Korczak J., Prętki Cz. Przekroje i rozwinięcia powierzchni walcowych i stożkowych. Wydawnictwo P.P. 1999 r.					
6. Loska	6. Loska J., Zbiór zadań ćwiczeniowych z rysunku technicznego, Wyd. Politechniki Śląskiej, Gliwice 1982					
Additi	onal bibliography:					
1. Freud	ch T.E., Vierck C.I., Fundamentales of engineering drawing, McGraw-Hill Book Co., New York 1	960.				
2. Freud	ch T.E., Vierck C.I., Engineering drawing and grafic technology, McGraw-Hill Book Co., New Yo	rk 1972.				
Result of average student's workload						
	Activity	Time (working hours)				
1. Partio	15					
2. Mem	15					
3. Cons	6					
4. Prepa	10					
5. Partio	2					

- 5. Participation in exam
 6. Participation in project classes
 7. Preparation to project classes
 8. Elaboration of project
 9. Consultations concerning the knowledge from project classes
- Preparation to project classes exam
 Participation in project classes exam

Student's workload				
Source of workload	hours	ECTS		
Total workload	125	5		
Contact hours	55	2		

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Practical activities